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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,606	11/27/2006	Massimo Pizzorno	10175.0003	2115
22852 7590 10/10/2007 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP			EXAMINER	
			ANDERSON, GUY G	
901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			ART UNIT	PAPER NUMBER
			2883	
		•	MAIL DATE	DELIVERY MODE
			10/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/576,606	PIZZORNO ET AL.
Office Action Summary	Examiner	Art Unit
	Guy G. Anderson	2883
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING THE METERS IN (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 21 A 2a) This action is FINAL 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 23-47 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) _' is/are allowed. 6) Claim(s) 23-47 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		•
9) The specification is objected to by the Examine 10) The drawing(s) filed on 21 April 2006 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b) ☐ objected to drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/21/2006 & 5/16/2006	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1.1 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1.2 Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claim 1, Beals discloses a method for installing optical fiber cables in pressurized gas pipelines. [Abstract, Col. 1, lines 55-60.] It is well known that the following limitations from applicants claim would be included in the optical fiber cables discussed in Beals.
 - 1a) an optical core comprising a number of telecommunication optical fibers; an outer jacket covering the optical core.

Beals does not specifically disclose:

1b) one or more gas leakage detector optical fibers, said one or more gas leakage detector optical fibers being enclosed within the outer jacket.

Saini discloses a sensor distribution network that uses optical fibers to monitor leak detections over long pipelines such as gas and oil pipelines. [Abstract, paragraph 48.] Since Beals and Saini are both from the same field of endeavor, the leak detecting fiber of Saini would have been recognized as being in the pertinent art of Beals.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the leak detecting fibers of Saini with the installed optical fiber cables of Beals in order to monitor for leaks in the pipeline as well as transmit voice and data over long distances.

1.3 Claim 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.

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Regarding claims 24-25, strength rods and neutral axis with preferential bending planes are well known in the art and it would have been obvious for one of ordinary skill in the art to use strength rods and to set a preferential bending axis.'

- 1.4 Claim 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claims 26-27, fiber winding techniques such as helical and SZ are well known in the art and would have been obvious to a PHOSITA.
- 1.5 Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claim 28, selecting a known material on the basis of its suitability for a particular purpose is within the general skill of a worker in the art.
- 1.6 Claim 29, 31, 33, 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claims 29, 31, 33, 36, supplying a primer fro providing adherence with the jacket is well known in the art of making optical fibers and would have been obvious to a PHOSITA.
- 1.7 Claims 30, 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claims 30, 32, providing a plurality of tubes that contain jelly is well known in the art of making optical fiber cables and would have been obvious to a PHOSITA.
- 1.8 Claims 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claims 34-35, providing a metal barrier comprised of various materials is well known in the art of making optical fiber cables and would have been obvious to a PHOSITA.
- 1.9 Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claim 37, selecting a known material on the basis of its suitability for a particular purpose is within the general skill of a worker in the art.
- 1.10 Claims 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.

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Regarding claims 38-39, providing a plurality of tubular elements around a central strength member and a cylindrical member with grooves is well known in the art of making optical fiber cables and would have been obvious to a PHOSITA.

- 1.11 Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claim 40, selecting a known material on the basis of its suitability for a particular purpose is within the general skill of a worker in the art.
- 1.12 Claims 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claims 41-43, providing a metal central tube, and a non metal central tube inserted within the metal central tube, and wherein the non metal tube is plastic, is well known in the art of making optical fiber cables and would have been obvious to a PHOSITA.
- 1.13 Claims 44-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over US-6536463 to Beals in view of US-2002/0125413 to Saini.
 - Regarding claims 44-47, discovering the optimum or working range involves only routine skill in the art and it would have been obvious to a PHOSITA at the time of invention to have outer jackets and strength rods of the dimensions claimed.

Conclusion

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy G. Anderson whose telephone number is 571.272.8045. The examiner can normally be reached on Tuesday-Saturday 0900-2200.
- 2.2 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571.272.2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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2.3 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

2.4 Date and signature of assistant examiner.

September 28, 2007

Frank G. Forth
Supervisory Patent Examiner
Technology Center 2800

Frank & F